



# Angular Advanced short recap – day #2



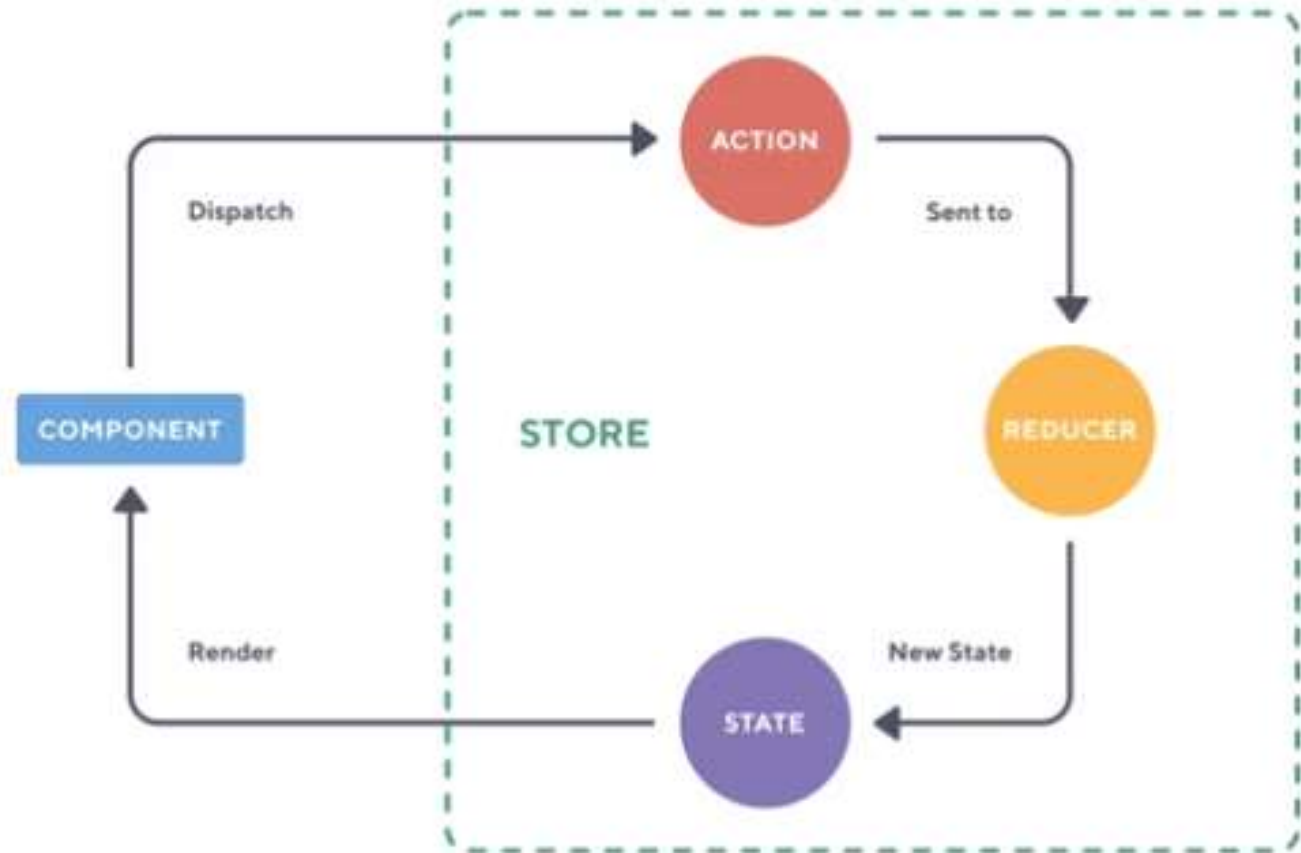
Peter Kassenaar  
[info@kassenaar.com](mailto:info@kassenaar.com)

# Recap day 2 – State Management

- **Analyzing** Angular Applications
  - Augury
  - Angular Copilot
- **State** Management
  - Concepts – store, state, actions, reducers
  - Working with basic types & complex types
  - Working with `Http` (directly)
  - Redux DevTools
  - Using `@ngrx/effects` and `@Effect()`
- Design Patterns: **Smart Components / View Components**

## REDUX ARCHITECTURE

### One-way dataflow



<https://platform.ultimateangular.com/courses/ngrx-store-effects/lectures/3788532>

# *Optional – workshop*

## *Case*

*(see slides in repo)*

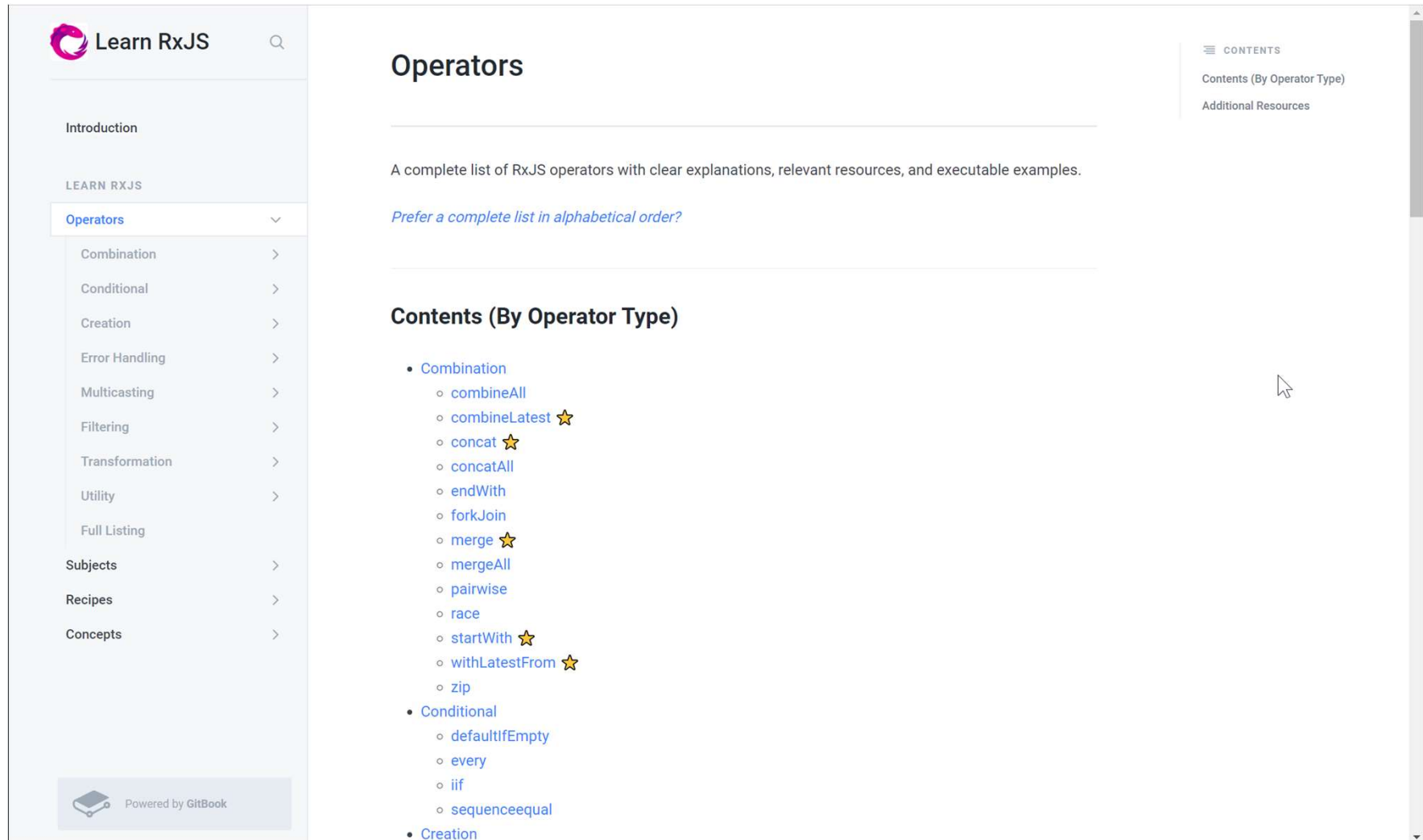
*Any other questions?*

# Today - day 3 – Miscellaneous

- Angular Performance tips/tricks/tools
- Some observable operators
- Unit Testing w/ Karma & Jasmine, Cypress as alternative
- Enterprise applications – monorepo....or not?
- Creating Angular Libraries [publish to NPM]
- Q & A
- ...



# More info on Observables



The screenshot shows the 'Learn RxJS' website. The left sidebar contains a navigation menu with the following items: Introduction, LEARN RXJS (with a sub-menu open showing Operators, Combination, Conditional, Creation, Error Handling, Multicasting, Filtering, Transformation, Utility, and Full Listing), Subjects, Recipes, and Concepts. The main content area is titled 'Operators' and includes a description: 'A complete list of RxJS operators with clear explanations, relevant resources, and executable examples.' Below this is a link: 'Prefer a complete list in alphabetical order?'. The 'Contents (By Operator Type)' section lists three categories: Combination (with sub-items: combineAll, combineLatest ★, concat ★, concatAll, endWith, forkJoin, merge ★, mergeAll, pairwise, race, startWith ★, withLatestFrom ★, zip), Conditional (with sub-items: defaultIfEmpty, every, iif, sequenceEqual), and Creation.

**Learn RxJS**

Introduction


LEARN RXJS

- Operators
- Combination
- Conditional
- Creation
- Error Handling
- Multicasting
- Filtering
- Transformation
- Utility
- Full Listing

Subjects

Recipes

Concepts

Powered by  GitBook

## Operators

A complete list of RxJS operators with clear explanations, relevant resources, and executable examples.

[Prefer a complete list in alphabetical order?](#)

### Contents (By Operator Type)

- Combination
  - [combineAll](#)
  - [combineLatest](#) ★
  - [concat](#) ★
  - [concatAll](#)
  - [endWith](#)
  - [forkJoin](#)
  - [merge](#) ★
  - [mergeAll](#)
  - [pairwise](#)
  - [race](#)
  - [startWith](#) ★
  - [withLatestFrom](#) ★
  - [zip](#)
- Conditional
  - [defaultIfEmpty](#)
  - [every](#)
  - [iif](#)
  - [sequenceEqual](#)
- Creation

<https://www.learnrxjs.io/>





Daniele Ghidoli

About me

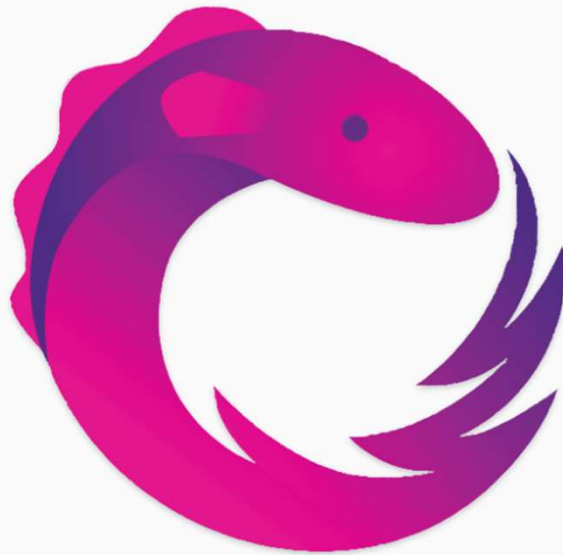


October 22, 2016

# Combining multiple Http streams with RxJS Observables in Angular2



<http://blog.danieleghidoli.it/2016/10/22/http-rxjs-observables-angular/>



# RxJS

Reactive Extensions Library for JavaScript

[GET STARTED](#)[API DOCS](#)

## REACTIVE EXTENSIONS LIBRARY FOR JAVASCRIPT

RxJS is a library for reactive programming using Observables, to make it easier to compose asynchronous or callback-based code. This project is a rewrite of Reactive-Extensions/RxJS with better performance, better modularity, better debuggable call stacks, while staying mostly backwards compatible, with some breaking changes that reduce the API surface

<https://rxjs-dev.firebaseio.com/>

[reactive.how](#) 2.0-alpha.4

[Launchpad for RxJS](#) Follow Stay tuned

ESSENTIALS	REDUCING	TAKING	SKIPPING	COMBINING	TIME	CONCATENATING
map	reduce	take	<a href="#">skip (soon)</a>	combineLatest	delay	<a href="#">startWith (soon)</a>
filter	max	takeWhile	skipWhile	zip	debounceTime	<a href="#">endWith (soon)</a>
merge	count	first	takeLast		throttleTime	<a href="#">concat (soon)</a>
scan			last			

## Learn RxJS operators and Reactive Programming principles

Launchpad for RxJS

debounceTime vs throttleTime

Decks of cards for RxJS: learn, compare and memorize

<https://reactive.how/>



# Wrap up

- Angular CLI tips & tricks
- NG applications with multiple modules
  - Routing and Lazy loading modules
  - Loading strategies
- State Management
- Design patterns
- Performance tips/tricks/tools
- Observables, RxJS operators
- Unit Testing
- Monorepo's & Libraries

# Let's connect

The screenshot shows a LinkedIn profile page. The top navigation bar includes the LinkedIn logo, a search bar, and icons for Home, My Network (with a red notification badge), Jobs, Messaging, Notifications, Me, and Work. The main content area on the left shows a section for education with the text 'duursporten (lopen, zwemmen, fietsen, roeien, schaatsen). Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).'. Below this is a blue button labeled 'Add new profile section'. The 'Featured Skills & Endorsements' section is circled in red and lists three skills: Teaching (3 endorsements), TypeScript (3 endorsements), and Angular (2 endorsements). Each skill entry includes the text 'Youri Pattynama and 2 connections have given endorsements for this skill' (or '1 connection' for Angular). A link 'See 26 more skills' is at the bottom of the list. The 'Recommendations' section is partially visible at the bottom. On the right side, there is a blue button 'Add new profile section' and a 'Messaging' button at the bottom right.

duursporten (lopen, zwemmen, fietsen, roeien, schaatsen).  
Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).

See more education ▾

**Featured Skills & Endorsements** Add a new skill ✎

Teaching · 3 Youri Pattynama and 2 connections have given endorsements for this skill

TypeScript · 3 Youri Pattynama and 2 connections have given endorsements for this skill

Angular · 2 Momen El Kamri and 1 connection have given endorsements for this skill

See 26 more skills ▾

Recommendations Ask to be recommended ✎

Messaging

<https://www.linkedin.com/in/peterkassenaar/>

Angulartraining.nl Home Training Dates Information Contact


2018 dates now

# Thank you

World-class Angular training in Dutch and English

classrooms - focused on today's developers

LEARN MORE SIGN UP!

The image is a screenshot of the Angulartraining.nl website. At the top, there is a navigation bar with links: 'Angulartraining.nl', 'Home', 'Training', 'Dates', 'Information', and 'Contact'. Below the navigation bar, the website content is visible, featuring the Angular logo (a red hexagon with a white 'A') and the text 'World-class Angular training in Dutch and English' and 'classrooms - focused on today's developers'. There are two buttons: 'LEARN MORE' (green) and 'SIGN UP!' (blue). A large, white, diagonal watermark reading 'Thank you' is overlaid across the center of the image. In the top right corner, there is a yellow banner that says '2018 dates now'. The background of the website shows a dark theme with code snippets and a file explorer on the left side.

[www.angulartraining.nl](http://www.angulartraining.nl)